

SHEET INDEX INITIATED ON 4-5-61)

SUPPORTING INFORMATION		NO	
DATE	2/24/2016	NO	NO
REVISION	1	NO	NO
REVISION	2	NO	NO
REVISION	3	NO	NO
REVISION	4	NO	NO
REVISION	5	NO	NO
REVISION	6	NO	NO
REVISION	7	NO	NO
REVISION	8	NO	NO
REVISION	9	NO	NO
REVISION	10	NO	NO
REVISION	11	NO	NO
REVISION	12	NO	NO
REVISION	13	NO	NO
REVISION	14	NO	NO
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REVISION	17	NO	NO
REVISION	18	NO	NO
REVISION	19	NO	NO
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REVISION	91	NO	NO
REVISION	92	NO	NO
REVISION	93	NO	NO
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REVISION	95	NO	NO
REVISION	96	NO	NO
REVISION	97	NO	NO
REVISION	98	NO	NO
REVISION	99	NO	NO
REVISION	100	NO	NO

1. WHEN CHANGES ARE MADE IN THIS DRAWING ONLY THOSE SHEETS AFFECTED WILL BE REVISIONED.

2. THIS SHEET NO. WILL BE REVISIONED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THE DRAWING IS REVISIONED OR A NEW SHEET IS ADDED.

3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.

4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.

5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECORDED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

6. THE SHEET INDEX WILL BE REVISIONED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THE DRAWING IS REVISIONED OR A NEW SHEET IS ADDED.

7. THE SHEET INDEX WILL BE REVISIONED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THE DRAWING IS REVISIONED OR A NEW SHEET IS ADDED.

8. THE SHEET INDEX WILL BE REVISIONED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THE DRAWING IS REVISIONED OR A NEW SHEET IS ADDED.

9. THE SHEET

[illegible]

APPARATUS INDEX

[illegible]

DESIC	LOCATION		
	FE	APP	FIG
COMPONENT	ASSEMBLY		
D1		10	
D2		14	
D3		14	
D4	SEE	15	
D5	APP	15	
	FIG		
H1		8	
H2		8	

CORDS			
SL	584	10	
SO	587	12	

DIGGES		
01	9G3	18
02,3	9F3	18
LK	8A1	19
TST	11A2	8
VO -4	8H4	16
V6C0-4	8E3	15
V8G0-4	8F3	15
VTO-4	8F3	14
VU0-4	8G3	14

JACKS		
JS-	IR/P3	B
SMB	365	8
SLO-9	364	9
SO(L)	387	11
SO(R)	387	11
TL(A)	389	13
TL(B)	389	13

LAMPS			
LWB	SSS	0	

NETWORKS			
HCC-9	16/H5	8	
NETC-9	16/34	8	
LR	902	18	

DESIG	LOCATION		
	XS	APP FIG.	EXPT
RESISTORS			
A	2F 1	G	
C	2A 1	B	
CW1	2C1	B	
CW2	2C1	B	
CW3	2C1	B	
CW4	2C3	B	
DA	1B/E6	B	
E	2E2	B	
F	2G2	B	
C	2E8	B	
WGO	2E5	B	
	1B/5A	B	

10/26	0
10/26	8
10/26	0
DEI	0
10/27-22	1

LO-4	18/02-03	22
LC	18/16	0
LM8	2045	0
LR1	9942	18
HR	2985	0
STA	18/05	0
STB	18/15	0

VC=	B304-G4	7,23
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DPSIG		LOCATION	
		FE	APP FAL EPT
SWITCHES		CROSSBAR	
CONE LINE & LINT TOP			
L HOLD 0-9	16/02		
J HOLD 0-9	16/05		
LJ SEL	16/09		
LINE			
L HOLD 0-9	16/02		
WT HOLD 0-9	16/05		
LD-9 SEL	16/09		
LINT			
L HOLD 00-19	16/02		
LC-9 SEL	16/09		

TEMP			
CW1	SC0	8	

CAPACITORS		
A	351	8
C	351	8
Cw1	351	8
Cw2	350	8
D	350	8
J	360	8
LG	19/Fb	8

LAMPS			
LWB	SSS	0	

NETWORKS			
HCC-9	16/H5	8	
NETC-9	16/34	8	
LR	902	18	

DRAWING ISSUE	
30	REVISED
100	REVISED
120	REVISED
40	REVISED
80	REVISED
200	REVISED
220	REVISED
250	REVISED
300	REVISED
330	REVISED

LEAD INDEX CONNECTING CIRCUITS

CIRCUIT TITLE	EXT	LEAD INDEX
2-WAY CONTROL OFFICE TRK CXT	382	437
ALARM CXT	382	
AUTO MON RES & SER TEST CXT	382	
AUTO PROG TRK TEST CXT	382	
AUX LINE LINK CXT	384	
AUX LINE CXT FOR USE WITH NO 5 ETS	415	
CALL WRITING CXT	304	
CALL WRITING LINE CXT	304	
CENTRAL TRK OR ATTENDANT TRK	304	
CONFERENCE CXT	304	
DISTRIBUTION AND SCANNER APPLICATION FOR ETS (EPS-ETS)	307	
ENHANCED OPERATIONAL TRUNK TEST AND REMOTE TEST (EXT/PRMS)	302	
EMERGENCY TRUNK MAKE BUSY CXT (EXT/PRMS)	302	
LINE	304	
LINE & SWITCH CXT	304	
LINE CXT - LINE LINK PULLING	304	
LINE CONCENTRATION CXT	304	
LINE, LINE LINK & CONN CXT	304	
LINE LINK CXT	304	
LINE LINK MESSAGE CXT	307	
LINE LOAD CXT	307	
LINE AND CXT-THIS LINE APPLICATION SCHEMATIC	405	
MURDER CONN CXT (TRAFFIC CONTROL)	304	
MURDER CONN CXT (LINE LINK MURDER CONN)	304	
MURDER CONN CXT (TRUNK BUSY)	304	
MURDER CONN CXT (MURDER START & MAKE BUSY)	304	
MURDER CONN CXT (MASTER TRAFFIC CXT)	304	
MURDER CONN PREF CXT	400	
MASTER TEST CONTROL CXT	400	
MASTER TEST FR, LAMP & KEY CXT	400	
MASTER TRAFFIC CXT	400	
MINI REMOTE OFFICE TEST LINE INTERFACE CXT	317	
NO TEST CONN CXT	401	
NO TRK MAKE BUSY CXT	401	
OBSERVING LINE CXT	401	
OFFICE TEST FR TEST CXT	401	
OUTGOING SENDER LK CXT	401	
PAGING JK CXT	401	
POSTION & POSITION, LOOP CXT	401	
PREF CXT & MAKE BUSY CXT	401	
RAISE EXTENSION CXT	401	
REMOTE OFFICE TEST LINE CXT	401	
REMOTE OFFICE TEST LINE ACCESS CXT	401	
SRV TEST CXT	401	
SRV RES REC CXT	401	
TEST CXT	404	
TRAFFIC REG CXT	404	
TRAFFIC USAGE REG CXT	404	
TRANSFER LINE (CXT & CONN CXT)	404	
TRK CXT	404	
TRK LINE CXT	404	
TRK LINE & CONN CXT	404	
TRK TEST CXT	404	
WIRELESS LINE CXT	405	

LEAD INDEX

DESIG	LOCATION	DESIG	LOCATION	DESIG	LOCATION	DESIG	LOCATION	DESIG	LOCATION
2-WAY CONTROL OFFICE TRK CXT	PS 1 C&D	AUX LINE LINK CXT	PS 1 C&D	2-WAY CONTROL OFFICE TRK CXT	PS 1 C&D	AUX LINE LINK CXT	PS 1 C&D	2-WAY CONTROL OFFICE TRK CXT	PS 1 C&D
ALARM CXT	18/80	ALARM CXT	18/80	ALARM CXT	18/80	ALARM CXT	18/80	ALARM CXT	18/80
AUTO MON RES & SER TEST CXT	304	AUTO MON RES & SER TEST CXT	304	AUTO MON RES & SER TEST CXT	304	AUTO MON RES & SER TEST CXT	304	AUTO MON RES & SER TEST CXT	304
AUTO PROG TRK TEST CXT	304	AUTO PROG TRK TEST CXT	304	AUTO PROG TRK TEST CXT	304	AUTO PROG TRK TEST CXT	304	AUTO PROG TRK TEST CXT	304
AUX LINE LINK CXT	304	AUX LINE LINK CXT	304	AUX LINE LINK CXT	304	AUX LINE LINK CXT	304	AUX LINE LINK CXT	304
AUX LINE CXT FOR USE WITH NO 5 ETS	415	AUX LINE CXT FOR USE WITH NO 5 ETS	415	AUX LINE CXT FOR USE WITH NO 5 ETS	415	AUX LINE CXT FOR USE WITH NO 5 ETS	415	AUX LINE CXT FOR USE WITH NO 5 ETS	415
CALL WRITING CXT	304	CALL WRITING CXT	304	CALL WRITING CXT	304	CALL WRITING CXT	304	CALL WRITING CXT	304
CALL WRITING LINE CXT	304	CALL WRITING LINE CXT	304	CALL WRITING LINE CXT	304	CALL WRITING LINE CXT	304	CALL WRITING LINE CXT	304
CENTRAL TRK OR ATTENDANT TRK	304	CENTRAL TRK OR ATTENDANT TRK	304	CENTRAL TRK OR ATTENDANT TRK	304	CENTRAL TRK OR ATTENDANT TRK	304	CENTRAL TRK OR ATTENDANT TRK	304
CONFERENCE CXT	304	CONFERENCE CXT	304	CONFERENCE CXT	304	CONFERENCE CXT	304	CONFERENCE CXT	304
DISTRIBUTION AND SCANNER APPLICATION FOR ETS (EPS-ETS)	307	DISTRIBUTION AND SCANNER APPLICATION FOR ETS (EPS-ETS)	307	DISTRIBUTION AND SCANNER APPLICATION FOR ETS (EPS-ETS)	307	DISTRIBUTION AND SCANNER APPLICATION FOR ETS (EPS-ETS)	307	DISTRIBUTION AND SCANNER APPLICATION FOR ETS (EPS-ETS)	307
ENHANCED OPERATIONAL TRUNK TEST AND REMOTE TEST (EXT/PRMS)	302	ENHANCED OPERATIONAL TRUNK TEST AND REMOTE TEST (EXT/PRMS)	302	ENHANCED OPERATIONAL TRUNK TEST AND REMOTE TEST (EXT/PRMS)	302	ENHANCED OPERATIONAL TRUNK TEST AND REMOTE TEST (EXT/PRMS)	302	ENHANCED OPERATIONAL TRUNK TEST AND REMOTE TEST (EXT/PRMS)	302
EMERGENCY TRUNK MAKE BUSY CXT (EXT/PRMS)	302	EMERGENCY TRUNK MAKE BUSY CXT (EXT/PRMS)	302	EMERGENCY TRUNK MAKE BUSY CXT (EXT/PRMS)	302	EMERGENCY TRUNK MAKE BUSY CXT (EXT/PRMS)	302	EMERGENCY TRUNK MAKE BUSY CXT (EXT/PRMS)	302
LINE	304	LINE	304	LINE	304	LINE	304	LINE	304
LINE & SWITCH CXT	304	LINE & SWITCH CXT	304	LINE & SWITCH CXT	304	LINE & SWITCH CXT	304	LINE & SWITCH CXT	304
LINE CXT - LINE LINK PULLING	304	LINE CXT - LINE LINK PULLING	304	LINE CXT - LINE LINK PULLING	304	LINE CXT - LINE LINK PULLING	304	LINE CXT - LINE LINK PULLING	304
LINE CONCENTRATION CXT	304	LINE CONCENTRATION CXT	304	LINE CONCENTRATION CXT	304	LINE CONCENTRATION CXT	304	LINE CONCENTRATION CXT	304
LINE, LINE LINK & CONN CXT	304	LINE, LINE LINK & CONN CXT	304	LINE, LINE LINK & CONN CXT	304	LINE, LINE LINK & CONN CXT	304	LINE, LINE LINK & CONN CXT	304
LINE LINK CXT	304	LINE LINK CXT	304	LINE LINK CXT	304	LINE LINK CXT	304	LINE LINK CXT	304
LINE LINK MESSAGE CXT	307	LINE LINK MESSAGE CXT	307	LINE LINK MESSAGE CXT	307	LINE LINK MESSAGE CXT	307	LINE LINK MESSAGE CXT	307
LINE LOAD CXT	307	LINE LOAD CXT	307	LINE LOAD CXT	307	LINE LOAD CXT	307	LINE LOAD CXT	307
LINE AND CXT-THIS LINE APPLICATION SCHEMATIC	405	LINE AND CXT-THIS LINE APPLICATION SCHEMATIC	405	LINE AND CXT-THIS LINE APPLICATION SCHEMATIC	405	LINE AND CXT-THIS LINE APPLICATION SCHEMATIC	405	LINE AND CXT-THIS LINE APPLICATION SCHEMATIC	405
MURDER CONN CXT (TRAFFIC CONTROL)	304	MURDER CONN CXT (TRAFFIC CONTROL)	304	MURDER CONN CXT (TRAFFIC CONTROL)	304	MURDER CONN CXT (TRAFFIC CONTROL)	304	MURDER CONN CXT (TRAFFIC CONTROL)	304
MURDER CONN CXT (LINE LINK MURDER CONN)	304	MURDER CONN CXT (LINE LINK MURDER CONN)	304	MURDER CONN CXT (LINE LINK MURDER CONN)	304	MURDER CONN CXT (LINE LINK MURDER CONN)	304	MURDER CONN CXT (LINE LINK MURDER CONN)	304
MURDER CONN CXT (TRUNK BUSY)	304	MURDER CONN CXT (TRUNK BUSY)	304	MURDER CONN CXT (TRUNK BUSY)	304	MURDER CONN CXT (TRUNK BUSY)	304	MURDER CONN CXT (TRUNK BUSY)	304
MURDER CONN CXT (MURDER START & MAKE BUSY)	304	MURDER CONN CXT (MURDER START & MAKE BUSY)	304	MURDER CONN CXT (MURDER START & MAKE BUSY)	304	MURDER CONN CXT (MURDER START & MAKE BUSY)	304	MURDER CONN CXT (MURDER START & MAKE BUSY)	304
MURDER CONN CXT (MASTER TRAFFIC CXT)	304	MURDER CONN CXT (MASTER TRAFFIC CXT)	304	MURDER CONN CXT (MASTER TRAFFIC CXT)	304	MURDER CONN CXT (MASTER TRAFFIC CXT)	304	MURDER CONN CXT (MASTER TRAFFIC CXT)	304
MURDER CONN PREF CXT	400	MURDER CONN PREF CXT	400	MURDER CONN PREF CXT	400	MURDER CONN PREF CXT	400	MURDER CONN PREF CXT	400
MASTER TEST CONTROL CXT	400	MASTER TEST CONTROL CXT	400	MASTER TEST CONTROL CXT	400	MASTER TEST CONTROL CXT	400	MASTER TEST CONTROL CXT	400
MASTER TEST FR, LAMP & KEY CXT	400	MASTER TEST FR, LAMP & KEY CXT	400	MASTER TEST FR, LAMP & KEY CXT	400	MASTER TEST FR, LAMP & KEY CXT	400	MASTER TEST FR, LAMP & KEY CXT	400
MASTER TRAFFIC CXT	400	MASTER TRAFFIC CXT	400	MASTER TRAFFIC CXT	400	MASTER TRAFFIC CXT	400	MASTER TRAFFIC CXT	400
MINI REMOTE OFFICE TEST LINE INTERFACE CXT	317	MINI REMOTE OFFICE TEST LINE INTERFACE CXT	317	MINI REMOTE OFFICE TEST LINE INTERFACE CXT	317	MINI REMOTE OFFICE TEST LINE INTERFACE CXT	317	MINI REMOTE OFFICE TEST LINE INTERFACE CXT	317
NO TEST CONN CXT	401	NO TEST CONN CXT	401	NO TEST CONN CXT	401	NO TEST CONN CXT	401	NO TEST CONN CXT	401
NO TRK MAKE BUSY CXT	401	NO TRK MAKE BUSY CXT	401	NO TRK MAKE BUSY CXT	401	NO TRK MAKE BUSY CXT	401	NO TRK MAKE BUSY CXT	401
OBSERVING LINE CXT	401	OBSERVING LINE CXT	401	OBSERVING LINE CXT	401	OBSERVING LINE CXT	401	OBSERVING LINE CXT	401
OFFICE TEST FR TEST CXT	401	OFFICE TEST FR TEST CXT	401	OFFICE TEST FR TEST CXT	401	OFFICE TEST FR TEST CXT	401	OFFICE TEST FR TEST CXT	401
OUTGOING SENDER LK CXT	401	OUTGOING SENDER LK CXT	401	OUTGOING SENDER LK CXT	401	OUTGOING SENDER LK CXT	401	OUTGOING SENDER LK CXT	401
PAGING JK CXT	401	PAGING JK CXT	401	PAGING JK CXT	401	PAGING JK CXT	401	PAGING JK CXT	401
POSTION & POSITION, LOOP CXT	401	POSTION & POSITION, LOOP CXT	401	POSTION & POSITION, LOOP CXT	401	POSTION & POSITION, LOOP CXT	401	POSTION & POSITION, LOOP CXT	401
PREF CXT & MAKE BUSY CXT	401	PREF CXT & MAKE BUSY CXT	401	PREF CXT & MAKE BUSY CXT	401	PREF CXT & MAKE BUSY CXT	401	PREF CXT & MAKE BUSY CXT	401
RAISE EXTENSION CXT	401	RAISE EXTENSION CXT	401	RAISE EXTENSION CXT	401	RAISE EXTENSION CXT	401	RAISE EXTENSION CXT	401
REMOTE OFFICE TEST LINE CXT	401	REMOTE OFFICE TEST LINE CXT	401	REMOTE OFFICE TEST LINE CXT	401	REMOTE OFFICE TEST LINE CXT	401	REMOTE OFFICE TEST LINE CXT	401
REMOTE OFFICE TEST LINE ACCESS CXT	401	REMOTE OFFICE TEST LINE ACCESS CXT	401	REMOTE OFFICE TEST LINE ACCESS CXT	401	REMOTE OFFICE TEST LINE ACCESS CXT	401	REMOTE OFFICE TEST LINE ACCESS CXT	401
SRV TEST CXT	401	SRV TEST CXT	401	SRV TEST CXT	401	SRV TEST CXT	401	SRV TEST CXT	401
SRV RES REC CXT	401	SRV RES REC CXT	401	SRV RES REC CXT	401	SRV RES REC CXT	401	SRV RES REC CXT	401
TEST CXT	404	TEST CXT	404	TEST CXT	404	TEST CXT	404	TEST CXT	404
TRAFFIC REG CXT	404	TRAFFIC REG CXT	404	TRAFFIC REG CXT	404	TRAFFIC REG CXT	404	TRAFFIC REG CXT	404
TRAFFIC USAGE REG CXT	404	TRAFFIC USAGE REG CXT	404	TRAFFIC USAGE REG CXT	404	TRAFFIC USAGE REG CXT	404	TRAFFIC USAGE REG CXT	404
TRANSFER LINE (CXT & CONN CXT)	404	TRANSFER LINE (CXT & CONN CXT)	404	TRANSFER LINE (CXT & CONN CXT)	404	TRANSFER LINE (CXT & CONN CXT)	404	TRANSFER LINE (CXT & CONN CXT)	404
TRK CXT	404	TRK CXT	404	TRK CXT	404	TRK CXT	404	TRK CXT	404
TRK LINE CXT	404	TRK LINE CXT	404	TRK LINE CXT	404	TRK LINE CXT	404	TRK LINE CXT	404
TRK LINE & CONN CXT	404	TRK LINE & CONN CXT	404	TRK LINE & CONN CXT	404	TRK LINE & CONN CXT	404	TRK LINE & CONN CXT	404
TRK TEST CXT	404	TRK TEST CXT	404	TRK TEST CXT	404	TRK TEST CXT	404	TRK TEST CXT	404
WIRELESS LINE CXT	405	WIRELESS LINE CXT	405	WIRELESS LINE CXT	405	WIRELESS LINE CXT	405	WIRELESS LINE CXT	405

LEAD INDEX

- OPTION INDEX

LINE LINE LINE AND
WALKER CONNECTOR COUNTER CIRCUL

ATKIN-ELL, LANCZOS AND CHEN

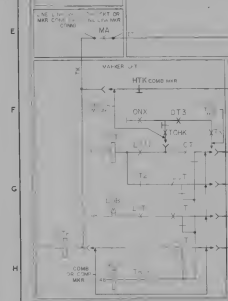
SD-26030-01-A4

65 AUGUST 5, 1995

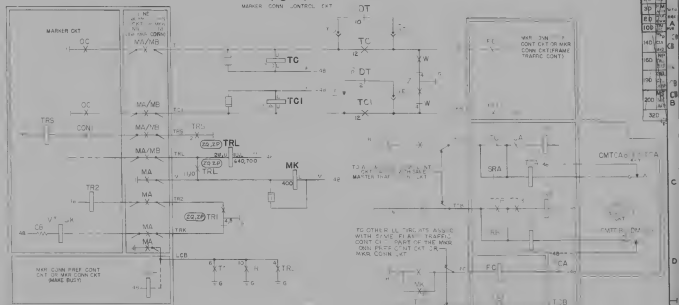
Calculating EQUURE	
2.30	Sal A/L A-AP
2.50	RAC
2.60	PMS
300	
31A	
320	
330	

52B

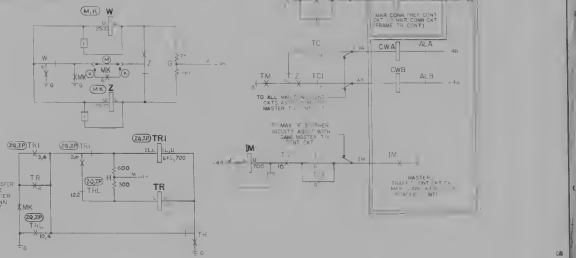
DE L'ART CONTINUED



MARKER	CONV	CONTROL	EXT
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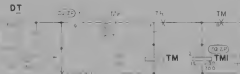


CALL TONE LOADOUT C-1



FS 6

T.M.L. 4-1



FS 8

FS 9



FS 7

MARKER CONNECTOR CONTROL CIRCUIT



TBS

CA



DRAWING NO.	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9
2	1	2	3	4	5	6	7	8	9
3	1	2	3	4	5	6	7	8	9
4	1	2	3	4	5	6	7	8	9
5	1	2	3	4	5	6	7	8	9
6	1	2	3	4	5	6	7	8	9
7	1	2	3	4	5	6	7	8	9
8	1	2	3	4	5	6	7	8	9
9	1	2	3	4	5	6	7	8	9

FS 101 FRAME ARRANGEMENT

A

B

C

D

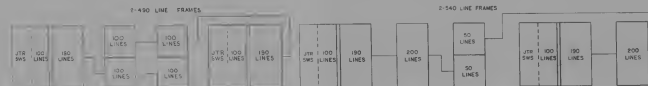
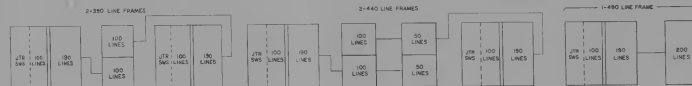
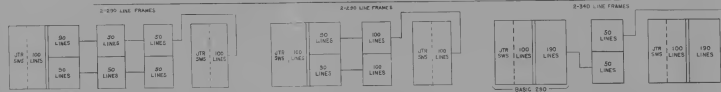
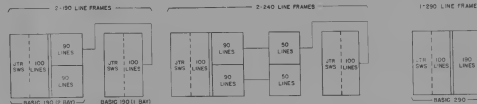
E

F

G

H

OPERATING
REUSE
JTR
4A
100
100
100
100
100
100



SD-26030-01-B4

FS 102

1	2	3	4	5	6	7	8	9
1	2	3	4	5	6	7	8	9



SD-26030-01-B5

RE: TEL. PHONE LABORATORY, INC.
 1000 W. 10th St.
 1000 W. 10th St.

LINE, LINE LINK AND
 MARKER CONNECTOR CONTROL CIRCUIT

SD-26030-01-B5
 65



0 1 2 3 4 5 6 7 8 9

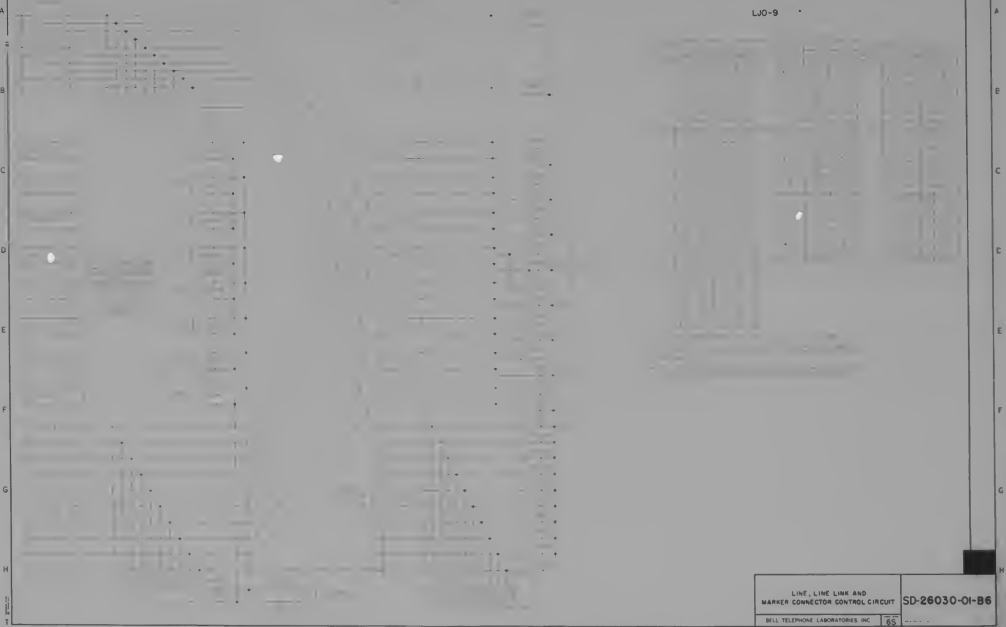
FS 103

FS 104

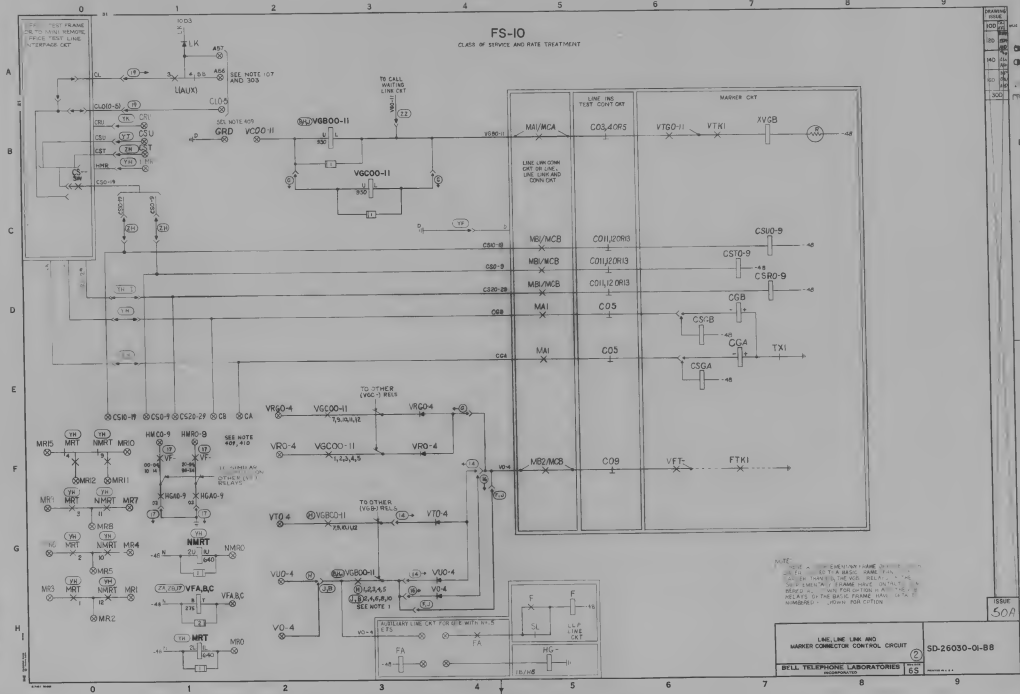
LJO-9

DESIGN
ISSUE
DATE
BY

SD-26030-01-B6

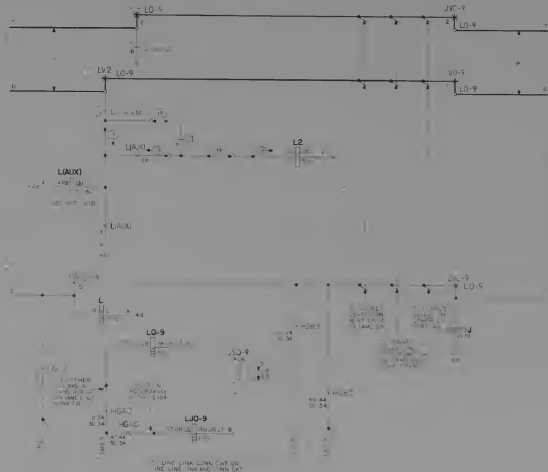


LINE, LINE LINK AND MARKER CONNECTOR CONTROL CIRCUIT		SD-26030-01-B6
BELL TELEPHONE LABORATORIES INC.		





LINE LINE SWTCH- AND JUNCTION
SWTCH CMT. SAYING TEST
LINE OFFLINE FRAME



STADLO

NO. 5
LINE, LINE LINK AND
OR CONNECTOR CONTROL C

BELL TELEPHONE LABORATORIES

SD-26030-01-BIO

65

TEST RELAYS



SD - 26030 - 01 - B11

30

LINE, LINE LINK AND
MARKER CONNECTOR CONTROL CKT

BELL TELEPHONE LABORATORIES
WHOLEY, HARRIS & WELCH

②

SD - 26030 - 01 - B11

6

① EARS RELAY
② EARS RELAY



RESISTANCE

	<u>DESIG</u>	<u>LOC</u>	<u>CODE</u>
Y	L-	18/A2-02	K5 13491 ,L3,3708

$$\textcircled{2} L^{\infty}$$


RESISTOR

DESIG	LOC	CODE
① L-	1B/A2-D2	KS-17491, L3, 3300

20840 CROSSBAR SWITCH

LJO-9		
DESIG	WIRE	LOC
0-9	0	12/05
0-9	1	12/05
0-9	2	12/05
MAGNETS	1 HOLD-0-9	12/05
	2 HOLD-0-9	12/05
	12 SEL	12/05
HOLD 0-9 CONT	12. 2T	12/05
	12. 2B	12/05
	12. 2C	12/05

3254P CROSSBAR SWITCH

DESIG	L ²	
LEVEL	WIRE	LOC
0-9	0	1A/22
0-9	1	1A/22
0-9	2	1A/22
MAGNETS	1 HOLD 0-9	1A/22
	2 HOLD 0-9	1A/22
	10-9 REL	1A/24
HOLD 0 & CONT	1T, 2T	1A/23
	1B, 2B	1A/23

504KF CROSSBAR SWITCH		
DESIGN	L-	
LEVEL	WIRE	LOC
C-5	0	1A/22
C-6	1	1A/22
C-7	2	1A/22
	HOLD DOOR	1A/22
MAGNETS	10-9 SEL	1A/24
	10-2T	1A/23
HOLD ON CONT	10-2S	1A/22

[illegible]

NETWORKS

	DESIG	LOC	CODE
(24, 4)	VSB-	002	185A
(6)	WEC-	003	185A

[illegible]

RESISTOR

DESIG	LOC	CODE
V8-	18/13-03	K3-8582, L4A, 536

SD-26030-01-C2

RELAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
RELAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572																																																																																																																																																																																																																																																																																																																																																																																																																																												

[illegible][illegible]

CCSD	H242-B	H242-B
CONF	28/40	28/40
SP Freq	2A _g 2B _g	2A _g 2B _g
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200	12.0/0.0	12.0/0.0

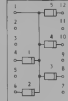
CAPACITOR

DESIG	LOC
A	3G1
C	3E1
QW1	3G1
QW2	300
D	3ED
J	3SD
10	18.0

DIOCE

	DESIG	LOC	CODE
YB	TST	11A2	7424 5234C

COMPONENT ASSEMBLY



JACK
[O] JSO-9
23RA OR 23AM
4 3 1 1A/T5
2 3 1 1A/T5
3-1534B, L3, 0014F
3-1534B, L3, 0014F
3-1534B, L3, 0014F
ATK

[illegible]

DESIG		N1	N2
CODE		(22) EO-44873-1	1038
OPTION		Z9	
COMPONENT	CODE	POS	DESIG LOC
NETWORK	1854	1	H016 18/86 H015 18/24
		2	H011 18/26 H016 18/86
		3	H012 18/66 H017 18/26
		4	H013 18/26 H018 18/86
		5	H014 18/86 H019 18/26

H21474				H214740			
	LOC	CORE		LOC	CORE		
	CH1	312	191A	E	371	194E	311.3 191A
	DT	180	191A	E	371	194E	311.3 191A
	H20-9	18/15	190A	CH1	371	194E	311.3 191A
	H21474-2	17/15	191A	CH2	371	194E	311.3 191A
				CH3	371	194E	311.3 191A
	10	273	191A	CH4	371	194E	311.3 191A
	18	207	191A	E	371	194E	311.3 191A
	HC	276	191A	E	371	194E	311.3 191A
				E	371	194E	311.3 191A
	TC	265	191A	E	371	194E	311.3 191A
	TC1	285	191A	E	371	194E	311.3 191A
	TH	311	191A	H20-9	18/15	190A	18/15 190A
	TH1	303	191A	H20-9	18/15	190A	18/15 190A
	TH2	303	191A	H20-9	18/15	190A	18/15 190A
	TH3	303	191A	H20-9	18/15	190A	18/15 190A
	TH4	303	191A	H20-9	18/15	190A	18/15 190A
	TH5	303	191A	H20-9	18/15	190A	18/15 190A
	TH6	303	191A	H20-9	18/15	190A	18/15 190A
	TH7	303	191A	H20-9	18/15	190A	18/15 190A
	TH8	303	191A	H20-9	18/15	190A	18/15 190A
	TH9	303	191A	H20-9	18/15	190A	18/15 190A
	TH10	303	191A	H20-9	18/15	190A	18/15 190A
	TH11	303	191A	H20-9	18/15	190A	18/15 190A
	TH12	303	191A	H20-9	18/15	190A	18/15 190A
	TH13	303	191A	H20-9	18/15	190A	18/15 190A
	TH14	303	191A	H20-9	18/15	190A	18/15 190A
	TH15	303	191A	H20-9	18/15	190A	18/15 190A
	TH16	303	191A	H20-9	18/15	190A	18/15 190A
	TH17	303	191A	H20-9	18/15	190A	18/15 190A
	TH18	303	191A	H20-9	18/15	190A	18/15 190A
	TH19	303	191A	H20-9	18/15	190A	18/15 190A
	TH20	303	191A	H20-9	18/15	190A	18/15 190A
	TH21	303	191A	H20-9	18/15	190A	18/15 190A
	TH22	303	191A	H20-9	18/15	190A	18/15 190A
	TH23	303	191A	H20-9	18/15	190A	18/15 190A
	TH24	303	191A	H20-9	18/15	190A	18/15 190A
	TH25	303	191A	H20-9	18/15	190A	18/15 190A
	TH26	303	191A	H20-9	18/15	190A	18/15 190A
	TH27	303	191A	H20-9	18/15	190A	18/15 190A
	TH28	303	191A	H20-9	18/15	190A	18/15 190A
	TH29	303	191A	H20-9	18/15	190A	18/15 190A
	TH30	303	191A	H20-9	18/15	190A	18/15 190A
	TH31	303	191A	H20-9	18/15	190A	18/15 190A
	TH32	303	191A	H20-9	18/15	190A	18/15 190A
	TH33	303	191A	H20-9	18/15	190A	18/15 190A
	TH34	303	191A	H20-9	18/15	190A	18/15 190A
	TH35	303	191A	H20-9	18/15	190A	18/15 190A

TUBE		
DESIGN	LOC	CODE
CMT	3C0	3130C
TH	3P0	344B OR 344C
TR5	3E0	344B OR 344C

LINE, LINE LINK AND MARKER CONNECTOR CONTROL CIRCUIT	SD-26030-01-C2
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APP FIG. 9

<u>JACK</u>	<u>DESIG</u>	<u>LOC</u>	<u>CODE</u>
[10]	SLE-9	3AA	R9-14502-13 OR R9-20447-13

APP FIG. 10

DESIGN	LOC	CODE
2L	384	1W(78)

APP FIG. 11

<u>JACK</u>	<u>DESIG</u>	<u>LOC</u>	<u>CODE</u>
(2)	SO(A,B)	347	2234

APP FIG. 12

CORR		
DESIG	LOC	CODE
30	367	3P34A

APP FIG. 13

<u>JACK</u>	<u>DESIG</u>	<u>LOC</u>	<u>CORE</u>
[2]	TL(A,B)	349	2234

APP FIG. 14

DIDDE			
	DESIGN	LOC	CODE
(70)	[5] VTB-A	8F3	4042, 813C
	[5] VUB-A	8G3	4046, 813C

APP FIG. 15

	<u>DISE</u>	<u>DESIG</u>	<u>LOC</u>	<u>CODE</u>
(2F)	(5) VRD-4	8F3	424E	813C
	(5) VRG0-4	8E3	424E	813C

APP FIG. 16

<u>DATE</u>	<u>DESIG</u>	<u>LOC</u>	<u>CODE</u>
1 53 VO-4	N+4		WHB 8130

APP FIG. 20

RELAY	LOL	NLL
50—44	IB/F6	IB/F6
47		
1+P2	IB/F5	IB/F5

APP FIG. 17

DESIG	HT	
100R	2500	
1010R	14	18
54	100	
55	100	LOC
52	90	
51	90	
90	90	
64	90	
43	90	
42	90	
41	90	
40	90	
34	87.5	
33	87.5	
32	87.5	
31	87.5	
30	87.5	
28	87.5	
23	87.5	
22	87.5	
21	87.5	
20	87.5	
14	87.5	
13	87.5	
12	87.5	
11	87.5	
10	87.5	
04	87.5	
03	87.5	
02	87.5	
01	87.5	
00	87.5	
1011	90	

RELAY	MST		SUBST	
DEST	ACCTOZ		YH	
OPTION	FE	LOC	CON	LOC
12	CON	LOC	CON	LOC
11			BN	BFO
10			BN	BFO
9			BN	BFO
8			BN	BFO
7			BN	BFO
6				
5	BN			
4	BN	BFO		
3	BN	BFO		
2	BN	BFO		
1	BN	BFO		
TOTL	<<	RH		BGL

MESSAGE		
DEST	DEST	LOC
YH	MST	BN
YH	SUBST	BGL
	VF	BN

APP FIG. 18

DEFLAY	LTa	LTm	LTMA	
CODE	AJ70	AJ70	AK4	
OPTION			ZS	
	CONT	LOC	CONT	LOC
	LOC	LOC	LOC	LOC
12	M	904	M	904
11	M	907	M	907
10	M	907	M	905
9	M	907	M	907
8	M	907	M	907
7	M	907	M	907
6	M	907	M	907
5	M	907	M	907
4	M	907	M	907
3	M	907	M	907
2	M	907	M	907
1	M	907	M	907
COLL	M	907	M	907

APP FIG. 19

[illegible]

LINE, LINE LINK AND
MARKER CONNECTOR CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES

SD-26030-01-C3

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9

CIRCUIT NOTES: 1201	USE AMP	POTENTIAL	ONE PER DESIG
A	1-1/2	ABV SIG	ALL 1-1/2 HOLD MAGNETS ON A SWITCH IN FIGURES 3 & 4 OR 5 AND ASSOCIATED 1-1/2 RELAYS
B	1-1/2	ABV SIG	SIMIL HOLD MAGNETS IN HOR GROUPS 0-4 AND ONE PER SIMIL HOLD MAGNETS IN FIG 4 ASSOCIATED WITH HOR GROUPS 5-9
C	1-1/2	ABV SIG	SIMIL HOLD MAGNETS OF TWO CONSECUTIVE NUMBERS JUNCTION SWITCHES IN FIG 3
D	1-1/2	ABV SIG	FIG. 5
E	1-1/2	ABV SIG	FIG. 6
F	1-1/2	ABV SIG	FIG. 7
G	1-1/2	ABV SIG	FIG. 8
H	1-1/2	ABV SIG	FIG. 9
I	1-1/2	ABV SIG	FIG. 10
J	1-1/2	ABV SIG	FIG. 11
K	1-1/2	ABV SIG	FIG. 12
L	1-1/2	ABV SIG	FIG. 13
M	1-1/2	ABV SIG	FIG. 14
N	1-1/2	ABV SIG	FIG. 15
O	1-1/2	ABV SIG	FIG. 16
P	1-1/2	ABV SIG	FIG. 17
Q	1-1/2	ABV SIG	FIG. 18
R	1-1/2	ABV SIG	FIG. 19
S	1-1/2	ABV SIG	FIG. 20
T	1-1/2	ABV SIG	FIG. 21
U	1-1/2	ABV SIG	FIG. 22
V	1-1/2	ABV SIG	FIG. 23
W	1-1/2	ABV SIG	FIG. 24
X	1-1/2	ABV SIG	FIG. 25
Y	1-1/2	ABV SIG	FIG. 26
Z	1-1/2	ABV SIG	FIG. 27
AA	1-1/2	ABV SIG	FIG. 28
AB	1-1/2	ABV SIG	FIG. 29
AC	1-1/2	ABV SIG	FIG. 30
AD	1-1/2	ABV SIG	FIG. 31
AE	1-1/2	ABV SIG	FIG. 32
AF	1-1/2	ABV SIG	FIG. 33
AG	1-1/2	ABV SIG	FIG. 34
AH	1-1/2	ABV SIG	FIG. 35
AI	1-1/2	ABV SIG	FIG. 36
AJ	1-1/2	ABV SIG	FIG. 37
AK	1-1/2	ABV SIG	FIG. 38
AL	1-1/2	ABV SIG	FIG. 39
AM	1-1/2	ABV SIG	FIG. 40
AN	1-1/2	ABV SIG	FIG. 41
AO	1-1/2	ABV SIG	FIG. 42
AP	1-1/2	ABV SIG	FIG. 43
AQ	1-1/2	ABV SIG	FIG. 44
AR	1-1/2	ABV SIG	FIG. 45
AS	1-1/2	ABV SIG	FIG. 46
AT	1-1/2	ABV SIG	FIG. 47
AU	1-1/2	ABV SIG	FIG. 48
AV	1-1/2	ABV SIG	FIG. 49
AW	1-1/2	ABV SIG	FIG. 50
AX	1-1/2	ABV SIG	FIG. 51
AY	1-1/2	ABV SIG	FIG. 52
AZ	1-1/2	ABV SIG	FIG. 53
BA	1-1/2	ABV SIG	FIG. 54
BB	1-1/2	ABV SIG	FIG. 55
BC	1-1/2	ABV SIG	FIG. 56
BD	1-1/2	ABV SIG	FIG. 57
BE	1-1/2	ABV SIG	FIG. 58
BF	1-1/2	ABV SIG	FIG. 59
BG	1-1/2	ABV SIG	FIG. 60
BH	1-1/2	ABV SIG	FIG. 61
BI	1-1/2	ABV SIG	FIG. 62
BJ	1-1/2	ABV SIG	FIG. 63
BK	1-1/2	ABV SIG	FIG. 64
BL	1-1/2	ABV SIG	FIG. 65
BM	1-1/2	ABV SIG	FIG. 66
BN	1-1/2	ABV SIG	FIG. 67
BO	1-1/2	ABV SIG	FIG. 68
BP	1-1/2	ABV SIG	FIG. 69
BQ	1-1/2	ABV SIG	FIG. 70
BR	1-1/2	ABV SIG	FIG. 71
BS	1-1/2	ABV SIG	FIG. 72
BT	1-1/2	ABV SIG	FIG. 73
BU	1-1/2	ABV SIG	FIG. 74
BV	1-1/2	ABV SIG	FIG. 75
BW	1-1/2	ABV SIG	FIG. 76
BX	1-1/2	ABV SIG	FIG. 77
BY	1-1/2	ABV SIG	FIG. 78
BZ	1-1/2	ABV SIG	FIG. 79
CA	1-1/2	ABV SIG	FIG. 80
CB	1-1/2	ABV SIG	FIG. 81
CC	1-1/2	ABV SIG	FIG. 82
CD	1-1/2	ABV SIG	FIG. 83
CE	1-1/2	ABV SIG	FIG. 84
CF	1-1/2	ABV SIG	FIG. 85
CG	1-1/2	ABV SIG	FIG. 86
CH	1-1/2	ABV SIG	FIG. 87
CI	1-1/2	ABV SIG	FIG. 88
CJ	1-1/2	ABV SIG	FIG. 89
CK	1-1/2	ABV SIG	FIG. 90
CL	1-1/2	ABV SIG	FIG. 91
CM	1-1/2	ABV SIG	FIG. 92
CN	1-1/2	ABV SIG	FIG. 93
CO	1-1/2	ABV SIG	FIG. 94
CP	1-1/2	ABV SIG	FIG. 95
CQ	1-1/2	ABV SIG	FIG. 96
CR	1-1/2	ABV SIG	FIG. 97
CS	1-1/2	ABV SIG	FIG. 98
CT	1-1/2	ABV SIG	FIG. 99
CU	1-1/2	ABV SIG	FIG. 100
CV	1-1/2	ABV SIG	FIG. 101
CW	1-1/2	ABV SIG	FIG. 102
CX	1-1/2	ABV SIG	FIG. 103
CY	1-1/2	ABV SIG	FIG. 104
CZ	1-1/2	ABV SIG	FIG. 105
DA	1-1/2	ABV SIG	FIG. 106
DB	1-1/2	ABV SIG	FIG. 107
DC	1-1/2	ABV SIG	FIG. 108
DD	1-1/2	ABV SIG	FIG. 109
DE	1-1/2	ABV SIG	FIG. 110
DF	1-1/2	ABV SIG	FIG. 111
DG	1-1/2	ABV SIG	FIG. 112
DH	1-1/2	ABV SIG	FIG. 113
DI	1-1/2	ABV SIG	FIG. 114
DJ	1-1/2	ABV SIG	FIG. 115
DK	1-1/2	ABV SIG	FIG. 116
DL	1-1/2	ABV SIG	FIG. 117
DM	1-1/2	ABV SIG	FIG. 118
DN	1-1/2	ABV SIG	FIG. 119
DO	1-1/2	ABV SIG	FIG. 120
DP	1-1/2	ABV SIG	FIG. 121
DQ	1-1/2	ABV SIG	FIG. 122
DR	1-1/2	ABV SIG	FIG. 123
DS	1-1/2	ABV SIG	FIG. 124
DT	1-1/2	ABV SIG	FIG. 125
DU	1-1/2	ABV SIG	FIG. 126
DV	1-1/2	ABV SIG	FIG. 127
DW	1-1/2	ABV SIG	FIG. 128
DX	1-1/2	ABV SIG	FIG. 129
DY	1-1/2	ABV SIG	FIG. 130
DZ	1-1/2	ABV SIG	FIG. 131
EA	1-1/2	ABV SIG	FIG. 132
EB	1-1/2	ABV SIG	FIG. 133
EC	1-1/2	ABV SIG	FIG. 134
ED	1-1/2	ABV SIG	FIG. 135
EE	1-1/2	ABV SIG	FIG. 136
EF	1-1/2	ABV SIG	FIG. 137
EG	1-1/2	ABV SIG	FIG. 138
EH	1-1/2	ABV SIG	FIG. 139
EI	1-1/2	ABV SIG	FIG. 140
EJ	1-1/2	ABV SIG	FIG. 141
EK	1-1/2	ABV SIG	FIG. 142
EL	1-1/2	ABV SIG	FIG. 143
EM	1-1/2	ABV SIG	FIG. 144
EN	1-1/2	ABV SIG	FIG. 145
EO	1-1/2	ABV SIG	FIG. 146
EP	1-1/2	ABV SIG	FIG. 147
EQ	1-1/2	ABV SIG	FIG. 148
ER	1-1/2	ABV SIG	FIG. 149
ES	1-1/2	ABV SIG	FIG. 150
ET	1-1/2	ABV SIG	FIG. 151
EU	1-1/2	ABV SIG	FIG. 152
EV	1-1/2	ABV SIG	FIG. 153
EW	1-1/2	ABV SIG	FIG. 154
EX	1-1/2	ABV SIG	FIG. 155
EY	1-1/2	ABV SIG	FIG. 156
EZ	1-1/2	ABV SIG	FIG. 157
FA	1-1/2	ABV SIG	FIG. 158
FB	1-1/2	ABV SIG	FIG. 159
FC	1-1/2	ABV SIG	FIG. 160
FD	1-1/2	ABV SIG	FIG. 161
FE	1-1/2	ABV SIG	FIG. 162
FF	1-1/2	ABV SIG	FIG. 163
FG	1-1/2	ABV SIG	FIG. 164
FH	1-1/2	ABV SIG	FIG. 165
FI	1-1/2	ABV SIG	FIG. 166
FJ	1-1/2	ABV SIG	FIG. 167
FK	1-1/2	ABV SIG	FIG. 168
FL	1-1/2	ABV SIG	FIG. 169
FM	1-1/2	ABV SIG	FIG. 170
FN	1-1/2	ABV SIG	FIG. 171
FO	1-1/2	ABV SIG	FIG. 172
FP	1-1/2	ABV SIG	FIG. 173
FQ	1-1/2	ABV SIG	FIG. 174
FR	1-1/2	ABV SIG	FIG. 175
FS	1-1/2	ABV SIG	FIG. 176
FT	1-1/2	ABV SIG	FIG. 177
FU	1-1/2	ABV SIG	FIG. 178
FV	1-1/2	ABV SIG	FIG. 179
FW	1-1/2	ABV SIG	FIG. 180
FX	1-1/2	ABV SIG	FIG. 181
FY	1-1/2	ABV SIG	FIG. 182
FZ	1-1/2	ABV SIG	FIG. 183
GA	1-1/2	ABV SIG	FIG. 184
GB	1-1/2	ABV SIG	FIG. 185
GC	1-1/2	ABV SIG	FIG. 186
GD	1-1/2	ABV SIG	FIG. 187
GE	1-1/2	ABV SIG	FIG. 188
GF	1-1/2	ABV SIG	FIG. 189
GG	1-1/2	ABV SIG	FIG. 190
GH	1-1/2	ABV SIG	FIG. 191
GI	1-1/2	ABV SIG	FIG. 192
GJ	1-1/2	ABV SIG	FIG. 193
GK	1-1/2	ABV SIG	FIG. 194
GL	1-1/2	ABV SIG	FIG. 195
GM	1-1/2	ABV SIG	FIG. 196
GN	1-1/2	ABV SIG	FIG. 197
GO	1-1/2	ABV SIG	FIG. 198
GP	1-1/2	ABV SIG	FIG. 199
GQ	1-1/2	ABV SIG	FIG. 200
GR	1-1/2	ABV SIG	FIG. 201
GS	1-1/2	ABV SIG	FIG. 202
GT	1-1/2	ABV SIG	FIG. 203
GU	1-1/2	ABV SIG	FIG. 204
GV	1-1/2	ABV SIG	FIG. 205
GW	1-1/2	ABV SIG	FIG. 206
GX	1-1/2	ABV SIG	FIG. 207
GY	1-1/2	ABV SIG	FIG. 208
GZ	1-1/2	ABV SIG	FIG. 209
HA	1-1/2	ABV SIG	FIG. 210
HB	1-1/2	ABV SIG	FIG. 211
HC	1-1/2	ABV SIG	FIG. 212
HD	1-1/2	ABV SIG	FIG. 213
HE	1-1/2	ABV SIG	FIG. 214
HF	1-1/2	ABV SIG	FIG. 215
HG	1-1/2	ABV SIG	FIG. 216
HH	1-1/2	ABV SIG	FIG. 217
HI	1-1/2	ABV SIG	FIG. 218
HJ	1-1/2	ABV SIG	FIG. 219
HK	1-1/2	ABV SIG	FIG. 220
HL	1-1/2	ABV SIG	FIG. 221
HM	1-1/2	ABV SIG	FIG. 222
HN	1-1/2	ABV SIG	FIG. 223
HO	1-1/2	ABV SIG	FIG. 224
HP	1-1/2	ABV SIG	FIG. 225
HQ	1-1/2	ABV SIG	FIG. 226
HR	1-1/2	ABV SIG	FIG. 227
HS	1-1/2	ABV SIG	FIG. 228
HT	1-1/2	ABV SIG	FIG. 229
HU	1-1/2	ABV SIG	FIG. 230
HV	1-1/2	ABV SIG	FIG. 231
HW	1-1/2	ABV SIG	FIG. 232
HX	1-1/2	ABV SIG	FIG. 233
HY	1-1/2	ABV SIG	FIG. 234
HZ	1-1/2	ABV SIG	FIG. 235
IA	1-1/2	ABV SIG	FIG. 236
IB	1-1/2	ABV SIG	FIG. 237
IC	1-1/2	ABV SIG	FIG. 238
ID	1-1/2	ABV SIG	FIG. 239
IE	1-1/2	ABV SIG	FIG. 240
IF	1-1/2	ABV SIG	FIG. 241
IG	1-1/2	ABV SIG	FIG. 242
IH	1-1/2	ABV SIG	FIG. 243
II	1-1/2	ABV SIG	FIG. 244
IJ	1-1/2	ABV SIG	FIG. 245
IK	1-1/2	ABV SIG	FIG. 246
IL	1-1/2	ABV SIG	FIG. 247
IM	1-1/2	ABV SIG	FIG. 248
IN	1-1/2	ABV SIG	FIG. 249
IO	1-1/2	ABV SIG	FIG. 250
IP	1-1/2	ABV SIG	FIG. 251
IQ	1-1/2	ABV SIG	FIG. 252
IR	1-1/2	ABV SIG	FIG. 253
IS	1-1/2	ABV SIG	FIG. 254
IT	1-1/2	ABV SIG	FIG. 255
IU	1-1/2	ABV SIG	FIG. 256
IV	1-1/2	ABV SIG	FIG. 257
IW	1-1/2	ABV SIG	FIG. 258
IX	1-1/2	ABV SIG	FIG. 259
IY	1-1/2	ABV SIG	FIG. 260
IZ	1-1/2	ABV SIG	FIG. 261
JA	1-1/2	ABV SIG	FIG. 262
JB	1-1/2	ABV SIG	FIG. 263
JC	1-1/2	ABV SIG	FIG. 264
JD	1-1/2	ABV SIG	FIG. 265
JE	1-1/2	ABV SIG	FIG. 266
JF	1-1/2	ABV SIG	FIG. 267
JG	1-1/2	ABV SIG	FIG. 268
JH	1-1/2	ABV SIG	FIG. 269
JI	1-1/2	ABV SIG	FIG. 270
JJ	1-1/2	ABV SIG	FIG. 271
JK	1-1/2	ABV SIG	FIG. 272
JL	1-1/2	ABV SIG	FIG. 273
JM	1-1/2	ABV SIG	FIG. 274
JN	1-1/2	ABV SIG	FIG. 275
JO	1-1/2	ABV SIG	FIG. 276
JP	1-1/2	ABV SIG	FIG. 277
JQ	1-1/2	ABV SIG	FIG. 278
JR	1-1/2	ABV SIG	FIG. 279
JS	1-1/2	ABV SIG	FIG. 280
JT	1-1/2	ABV SIG	FIG. 281
JU	1-1/2	ABV SIG	FIG. 282
JV	1-1/2	ABV SIG	FIG. 283
JW	1-1/2	ABV SIG	FIG. 284
JX	1-1/2	ABV SIG	FIG. 285
JY	1-1/2	ABV SIG	FIG. 286
JZ	1-1/2	ABV SIG	FIG. 287
KA	1-1/2	ABV SIG	FIG. 288
KB	1-1/2	ABV SIG	FIG. 289
KC	1-1/2	ABV SIG	FIG. 290
KD	1-1/2	ABV SIG	FIG. 291
KE	1-1/2	ABV SIG	FIG. 292
KF	1-1/2	ABV SIG	FIG. 293
KG	1-1/2	ABV SIG	FIG. 294
KH	1-1/2	ABV SIG	FIG. 295
KI	1-1/2	ABV SIG	FIG. 296
KJ	1-1/2	ABV SIG	FIG. 297
KK	1-1/2	ABV SIG	FIG. 298
KL	1-1/2	ABV SIG	FIG. 299
KM	1-1/2	ABV SIG	FIG. 300
KN	1-1/2	ABV SIG	FIG. 301
KO	1-1/2	ABV SIG	FIG. 302
KP			

EQUIPMENT NOTES

- 201 JOB RECORDS NEED NOT BE MAINTAINED FOR OPTIONS "A" AND "M"
- 202 VERTICAL GROUP NUMBERS, RELAY AND LEAD DESIGNATION SUFFIXES AS SHOWN, ASSUMING STANDARD SPLIT SUPPLEMENTARY BAY ARRANGEMENTS (SEE FS 101). WHEN ANY ADDITIONAL SPLIT SUPPLEMENTARY BAYS ARE ADDED, THE VERTICAL GROUP NUMBERS FOR THESE BAYS MAY NOT AGREE WITH THOSE OF LEAD 11. LEADS 12-19 ARE ASSIGNED TO THE VERTICAL GROUP NUMBERS ASSIGNED TO THE ADDITIONAL BAYS. THESE SHOULD BE ASSIGNED TO APPEAR AS RELAY AND LEAD DESIGNATION SUFFIXES IN PLACE OF THESE SHOWN.

- 203 THESE LEADS MUST BE PROVIDED WHEN THE UNLESS ONLY OF AN EXISTING SPLIT SUPPLEMENTARY FRAME NOT ARRANGED FOR 100 CLASSES OF SERVICE IS TO BE ASSOCIATED WITH A BASIC FRAME ARRANGES FOR 100 CLASSES OF SERVICE.

- 204 LINE LINK FRAMES IN A NUMBER GROUP SHALL BE WIRED (SEE C40 5) SO THAT ALL FRAMES AGREE WITH (A) OR ALL FRAMES AGREE WITH (B) AS INDICATED BELOW.

- (a) (CAMP ONLY) WIRING REQUIRED WHEN FRAMES ARE ADDED TO EXISTING OFFICES HAVING LINE LINK FRAMES MANUFACTURED PER ISSUE 14 OR EARLIER OF SD-2630-D1 AND ONE OF THE FOLLOWING FEATURES ARE PROVIDED IN THE NUMBER GROUP:
- LINE LINK PULSING
 - TIE LINE PAD CONTROL (CAMP ONLY)
 - MULTILEVEL PRESCRIPTION
 - RANGE EXTENSION
 - AUTOMATIC INTERCEPT USING LINE LINK PULSING
- (b) WIRING REQUIRED FOR NEW OFFICES OR WHEN ANY OF THE FOLLOWING FEATURES ARE PROVIDED IN THE NUMBER GROUP:
- LINE LINK PULSING
 - TIE LINE PAD CONTROL (CAMP ONLY)
 - MULTILEVEL PRESCRIPTION
 - RANGE EXTENSION
 - AUTOMATIC INTERCEPT USING LINE LINK PULSING

- 205 WHEN APP FIG 17 IS PROVIDED FOR TEST LINES ASSOCIATED WITH THE OFFICE TEST FRAME, (CAMP ONLY) FOR ALL NEW AND USED WHEN APP FIG 17 IS PROVIDED FOR THE TEST LINE ASSOCIATED WITH THE MAIN MASTER OFFICE TEST LINE, ONLY HORIZONTAL GROUP ZERO IS USED. WHERE EITHER IS PROVIDED HORIZONTAL GROUPS 1 THRU 9 OR 0 MAY BE USED FOR OTHER SERVICES OR SUBSCRIBER LINES AS REQUIRED. TWO ADDITIONAL APP FIG 17'S ARE AVAILABLE PER OFFICE CLASS OF SERVICE. ON A HOLD NUMBER BASIS TESTS IF LEAD 00 IS NOT WIRE SPRING, THE MAIN MASTER OFFICE TEST LINE WILL BE ASSIGNED TO THE LOWEST NUMBERED WIRE SPRING LEAD IN THE OFFICE.

- 206 PRIOR TO ISSUE 212 WHERE CONTACT PROTECTION IS REQUIRED FOR ALL JARAS CONTACTS, OPTION 21 MUST BE PROVIDED AND MAINTAINED PER ASSIGNED LINE.

- 207 WHEN MORE THAN A DIAL TONE NUMBERS ARE ORDERED FOR INCREASED MAP CAPACITY, THE HIGHER NUMBERED LINE LINK FRAMES ARE ASSOCIATED WITH MASTER TR CONT UNIT B AND ARE SERVED BY DIAL TONE MARKERS C-3 AND THE LOWER NUMBERED LINE LINK FRAMES ARE ASSOCIATED WITH MASTER TR CONT UNIT B AND ARE SERVED BY DIAL TONE MARKERS D-1, 2, 3, 4, 5, 6, 7, 8, 9, 0. DIAL TONE NUMBERS ARE PROVIDED ON LEADS 12-19. LEADS 12-19 ARE ASSIGNED TO THE VERTICAL GROUP NUMBERS ASSIGNED TO THE ADDITIONAL BAYS. THESE SHOULD BE ASSIGNED TO APPEAR AS RELAY AND LEAD DESIGNATION SUFFIXES IN PLACE OF THESE SHOWN. THESE SHOULD BE ASSIGNED TO APPEAR AS RELAY AND LEAD DESIGNATION SUFFIXES IN PLACE OF THESE SHOWN. THESE SHOULD BE ASSIGNED TO APPEAR AS RELAY AND LEAD DESIGNATION SUFFIXES IN PLACE OF THESE SHOWN.

NO OF LL FRAMES IN THE GROUP	LEADING BETWEEN	LL FRAMES ASSOC WITH	
		MASTER TR CONT UNIT A	MASTER TR CONT UNIT B
75-85	LL 19/20	LL 20-24	LL 00-19
86-95	LL 24/25	LL 25-34	LL 00-24
96-100	LL 29/30	LL 30-39	LL 00-29

HYPEROPTION NOTES

- 301 TWO GROUPS OF (S10-9) JACKS ARE PROVIDED: ONE GROUP MULTIPLEXED TO THE EVEN NUMBERED FRAMES AND THE OTHER TO THE ODD NUMBERED FRAMES.

- 302 LINES THAT HAVE TERMINAL NO SERVICE ONLY ARE NOT ASSOCIATED WITH A DIAL TONE LINE CIRCUIT MAY BE OPTIONS "A" AND "M". IF THE REGISTER ONLY COMPLETING MARKER IS AVAILABLE TO ROUTE A DIAL TONE CALL FROM THIS TYPE OF LINE TO A PERMANENT SIGNAL HOLDING TRUNK.

- 303 APP FIG 14 IS PROVIDED FOR THE OFFICE TEST FRAME ORIGINATING TEST LINE ON LL 00 ONLY.

- 304 UNLESS OTHERWISE SPECIFIED, RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS, VALUES PRECEDED BY THE SYMBOL "C" PLUS OR "MINUS" ARE IN VOLTS.

- 305 THE SD-29 LEADS ARE CONNECTED TO THE VARIOUS LINE HOLD POINTS IN ONE OF TWO VERTICAL GROUP PATTERNS. THE VERTICAL GROUP PATTERNS ARE ESTABLISHED BY CROSS CONNECTIONS IN THE TRANSFER LINE IDENTIFIER.

EXAMPLE: PATTERN A: SD-29 LEADS IN HCO-4 ASSIGNED TO VERTICAL GROUPS 00-05 EXCLUDING 5-10 (END TEST VERTICAL).

PATTERN B: SD-29 LEADS IN HCO-4 ASSIGNED TO VERTICAL GROUPS 00-01, 05-06.

EXAMPLE: ("24" OPTION FOR LINES APPEARING IN MORE THAN SIX VERTICAL GROUPS PER LINE LINK FR.)

PATTERN A: SD-29 LEADS IN HCO-4 ASSIGNED TO VERTICAL GROUPS 00-05 EXCLUDING 5-10 (END TEST VERTICAL) AND 530-59 LEADS IN HCO-4 ASSIGNED TO VERTICAL GROUPS 00-11.

PATTERN B: SD-29 LEADS IN HCO-4 ASSIGNED TO VERTICAL GROUPS 00-01, 05-06, AND 530-59 LEADS IN HCO-4 ASSIGNED TO VERTICAL GROUPS 00-07-11 EXCLUDING 5-10 (END TEST VERTICAL).

WORKING LIMITS

LL 3 RELAYS SEE RANGE CHART IN KEYSHEET

498

LINE, LINE LINK AND
MARKER (CONNECTOR CONTROL CIRCUIT)BELL TELEPHONE LABORATORIES
INCORPORATED

SD-2630-01-DIC

65

CROSS-CONNECTING INFORMATION: (CONDITIONS)

CROSS-CONNECTING INFORMATION: (CONDITION)SD-26050-01-02A

CROSS CONNECTING INFORMATION (LOCATION)

TERMINAL	TS	LOCATION	CROSS CONN TABLE PART	FUNCTIONAL DESIGNATION
CA, CB	861-82	TEMP. STRIP	CA, CB	
		A	A113	
CRU	861	A	A117	
C30-A	861	A	C30-A	1
C310-14	860	A	C310-14	1
C310-24	861	A	C310-24	1
C31, C32	861	A, L	C31, C32	4
DSB-11	15/A3, C3	A	DSB-11	2
SR0	861	A	SR0-11	1, 8
HMC-	871	A, L	HMC-9	
			HMC-9	1, 8
			HMC-9	
HMC-9	871	A, L	HMC-9	4, 8
			HMC-9	
HMC	881		HMC-9	8
HMC-	871	A, L	HMC-9	1, 8
			HMC-9	
HMC	873, F1	A, L	HMC-9	4, 8
			HMC-9	
			HMC-9	
IS		HMC	IS	4
LSB-02	18/93	L-G	LSB-02	2
LSB-11	873	L-G	LSB-11	2
LSB-15	18/92, 02	L-C	LSB-15	2
LSB-95	18/92, 02	L-C	LSB-95	2
LSB, 861	18/93, 03	L-C	LSB, 861	2
		HMC	LS	4
			LS	
MSD-12	879, 10, 92, 91	A	MSD-12	8
			MSD-12	
MS15	870	A	MS15	8
			MS15	
MS		HMC	MS	4
MSD-7	18/97, 07	A	MSD-7	3
MSA	18/97	A	MSA	3
MSB	18/97	A	MSB	3
MSRD	861	A	MS14	8
			MS14	
MS				
R		HMC, HMC	R	4
S		HMC	S	4
T		HMC, HMC	T	4
VO-4	892	A	VO-4	1, 8
VC-	862	B	VC-	5
		C	64, 65	
V320-11	862	A	V320-11	1
VC-	861	A	V3A, 15	1, 2, 8
VC-	15/A3	B	54	5
		C	88, 69	
V320-11	15/A3, C3	A	V320-11	2
V80-4	872	A	V80-4	1
V80-4	862	A	V80-4	1
V70-4	862	A	V70-4	1
V10-4	862	A	V10-4	1
V13	862	A	V13	6

LINE, LINE AND WIRELESS CONNECTOR CONTROL CIRCUIT		ONE SIZE A7	ISSUE 50A
BELL LABORATORIES	SD-26030-01-	028	

CROSS CONNECTION NOTES:

A01. CANCELED

A02. THE (VT-1) AND (VO-3) TERMINALS CORRESPOND TO VERTICAL FILE NUMBERS WITHIN THE VERTICAL GROUP CONSISTING OF 5 VERTICAL FILES ASSOC WITH ONE (VOR-1) RELAY. WHEN THE MARKER GROUP IS ARRANGED FOR A MAXIMUM OF 30 OR 40 CLASSES OF SERVICE, THE CLASS OF SERVICE FOR EACH VERTICAL FILE IS DETERMINED BY THE CROSS-CONNECTIONS BETWEEN THE (VO-3) TERMINAL AND THE (CS-1) TERMINAL. WHEN THE MARKER GROUP IS ARRANGED FOR A MAX OF 100 CLASSES OF SERVICE, THE CLASS OF SERVICE FOR EACH VERTICAL FILE IS DETERMINED BY THE CROSS-CONNECTIONS BETWEEN THE (VT-1) AND THE (CSIO-9) TERMINALS AND BETWEEN THE (VP-1) AND THE (CSIO-19) TERMINALS. THE CLASS OF SERVICE ASSOC WITH EACH (CS-1) TERMINAL OR EACH COMBINATION OF (CSIO-9) AND (CSIO-19) TERMINALS IS DETERMINED BY CROSS-CONNECTIONS IN THE MARKER.

A03. LINE LINE FRAMES WILL BE FURNISHED WITH STRAPS (VGO) TO (GO), (XG1) TO (G1) ETC. FOR VERT GROUPS. WHEN LINE LEAD CONTROL IS PROVIDED THE STRAPS FOR THE VERT GROUPS ON WHICH LINE LEAD CONTROL IS TO BE EFFECTIVE SHOULD BE REMOVED. JOB RECORDS NEED NOT BE MAINTAINED FOR THIS OPTION.

A04. IN EACH LINE LINE FRAME TWO MARKERS SHOULD BE CHOSEN TO BE PREFERRED OR ALTERNATE CALLS. WHEN POSSIBLE THESE SHOULD BE SEPARATED BY ONE OR MORE OF THE REMAINING MARKERS WHICH ARE THEN LESS PREFERRED. EACH MARKER SHALL APPEAR AS A PREFERRED MARKER TO APPROXIMATELY THE SAME NUMBER OF LINE LINE FRAMES. ASSIGNMENT OF PREFERRED MARKERS MAY BE PERIODICALLY SHIFTED TO DISTRIBUTE WEAR.

A05. LINE LINE FRAMES WILL BE FURNISHED WITH TERMINALS (VGO-11) STRAPPED TO LOUIS TERMINALS. IF THE MARKER GROUP IS ARRANGED FOR A MAX OF 40 CLASSES OF SERVICE, REMOVE GROUND STRAPS AND CROSS-CONNECT THE (VGO-11) TERMINALS TO THE (CA) OR (CB) TERMINAL AS REQUIRED. JOB RECORDS NEED NOT BE MAINTAINED FOR THIS OPTION.

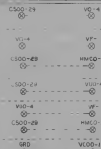
A06. WHEN SPLIT 30-LINE AND SPLIT 100-LINE SUPPLEMENTARY LINE LINE BASE ARE ADDED TO NON-WIRE-SPRING BASIC LINE LINE FRAMES WHICH ARE NOT WIRED FOR LINE LEAD CONTROL, THE (G) AND (V) LEADS SHALL BE STRAPPED AS SHOWN ON CRO. 11 AND CRO. 12. JOB RECORDS NEED NOT BE MAINTAINED FOR THIS OPTION.

A07. WHEN SPLIT 30-LINE AND SPLIT 100-LINE SUPPLEMENTARY LINE (VPT) LINE BASE ARE ADDED TO NON-WIRE-SPRING BASIC LINE LINE (VPT) FRAMES, THE (V) LEADS SHALL BE STRAPPED AS SHOWN ON CRO. 11 AND CRO. 12. JOB RECORDS NEED NOT BE MAINTAINED FOR THIS OPTION.

A08. THE (VPT-4) AND (VPT-3) TERMINALS CORRESPOND TO VERTICAL FILE NUMBERS WITHIN VERTICAL GROUP OF 5 VERTICAL FILES ASSOCIATED WITH ONE (VOR-1) AND ONE (VOR-2) RELAY. THESE TERMINALS ARE CROSS-CONNECTED TO (CSIO-9) AND (CSIO-19) TERMINALS RESPECTIVELY WHEN RATE TREATMENT IS REQUIRED. THIS FEATURE MAY BE USED, IF THE MARKER GROUP IS ARRANGED FOR A MAX OF 100 CLASSES OF SERVICE, TO PROVIDE WTE CLASSES INDEPENDENT OF OPERATION CLASSES. THIS PERMITS A MAX OF 30 RATE TREATMENT CLASSES.

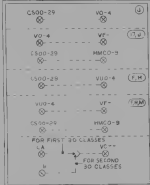
A09. CROSS CONNECTIONS FOR MARK GROUP ARRANGED FOR:

MAX 30 CLASSES OF SERVICE



(CROSS CONNECTION NOTES (CONT))

MAX 40 CLASSES OF SERVICE



MAX 100 CLASSES OF SERVICE WITHOUT RATE TREATMENT



MAX 100 CLASSES OF SERVICE WITH 30 RATE TREATMENT

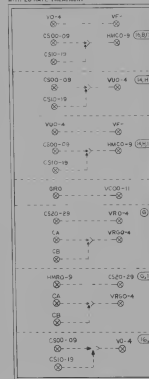


CROSS CONNECTION NOTES: (CONT)

MAX 100 CLASSES OF SERVICE WITH 30 RATE TREATMENT



MAX 30 CLASSES OF SERVICE WITH 30 RATE TREATMENT



CROSS CONNECTION NOTES: (CONT)

A10. EACH LINE HOLD MARKER IN A VERTICAL FILE ASSOC WITH A VPT-1 RELAY (APP FIG. 17) MAY BE ASSIGNED A DISTINCTIVE CLASS INDICATION WITH ALL LINES IN A VERTICAL FILE HAVING THE SAME RATE, OR EACH MAY BE ASSIGNED A DIFFERENT CLASS UNITS AND DIFFERENT RATE UNITS WITH ALL LINES IN THE VERTICAL FILE HAVING THE SAME CLASS TENS.

A11. LOOPS WITHIN A LONG LOOP HORIZONTAL GROUP MAY BE USED WITH SHORT LOOP LINES BY CHANGING THE LO-CROSS CONNECT FROM LO1 TO KALL.

A12. WHEN SPLIT 30-LINE AND SPLIT 100-LINE SUPPLEMENTARY LINE LINE FRAMES ARE ADDED TO NON-WIRE-SPRING BASIC LINE LINE FRAMES AND THE MARKER GROUP IS NOT ARRANGED FOR 60 CLASSES OF SERVICE THE (V) LEADS SHALL BE STRAPPED AS SHOWN ON CRO 11 AND CRO 12. JOB RECORDS NEED NOT BE MAINTAINED FOR THIS OPTION.

LINE, LINE LINE AND MARKER CONNECTOR CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES

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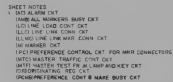
SD-26030-01-D3

DIAL TONE CONNECTION

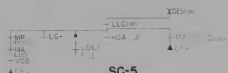


CALLS
WAITING
TIMER
XOT

CALL FIDHROFID



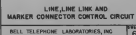
2. Δ_{ack} BACK OR TERMINATING Δ_{ack}



4 1 3 2 5 * 6 * 7 8 9



OVER ALL AND TRANSFER START LEAD TIMING



CIRCUIT REQUIREMENTS

APPARATUS				CIRCUIT PREPARATION										TEST SET PREP										DIRECT CURRENT FLOW METER										REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
RES-3	CODE	OPTION	F/C	REF	CON-PA	CON-PA	BLK-1	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST

0123456789

TABLE A

FIG. 11-11-15. TERMINAL NUMBERING FOR LINE SWITCH SORT CABLE 60-9

LINE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
2	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
3	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
4	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
5	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
6	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108
7	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126
8	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144
9	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162

FIG. 11-11-16. TERMINAL NUMBERING FOR LINE SWITCH SORT CABLE 60-9

LINE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
2	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
3	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
4	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
5	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
6	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108
7	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126
8	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144
9	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162

0123456789

TABLE A

FIG. 11-11-15. TERMINAL NUMBERING FOR LINE SWITCH SORT CABLE 60-9

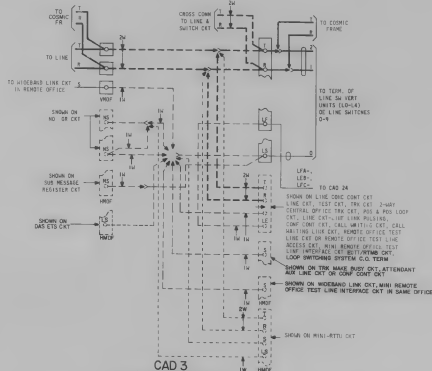
LINE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
2	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
3	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
4	55	56	57	58	59	60	61	62	63	64	65	6						

DATE	5/1/20	INITIALS	
LT		428	

CIA

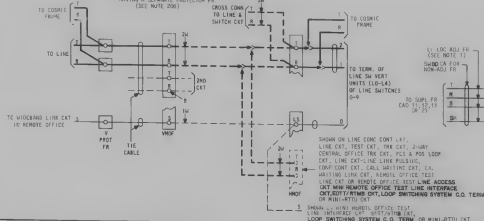
CAD 1

(FOR APP FIGS. 3, 4 & 5)
FOR ALL OFFICES EXCEPT THOSE PROVIDING FOR
TWO PARTY MESSAGE REGISTER SERVICE
(SEE NOTE 100)



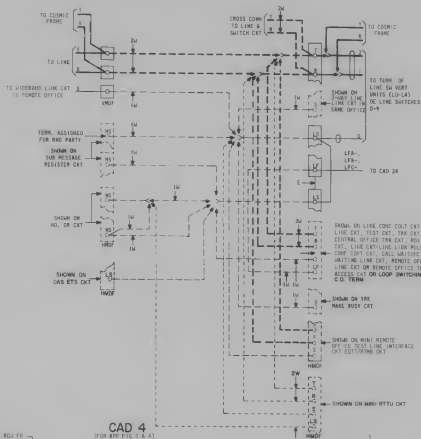
CAD 3

(FOR APP FIGS. 3, 4 & 5)
DISTINGUISHING FROM CAD LINE USED IN OFFICES
HAVING A SEPARATE PROTECTOR FR
(SEE NOTE 100)



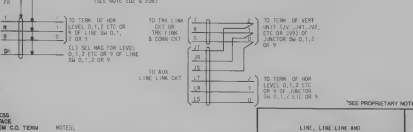
CAD 2

(FOR APP FIGS. 3, 4 & 5)
FOR OFFICES PROVIDING FOR TWO PARTY
MESSAGE REGISTER SERVICE
(SEE NOTE 100)



CAD 4

(FOR APP FIGS. 3 & 4)
SIGNAL FR
TWO (2) BAYS ON TWO
(SEE NOTE 100 & 200)



NOTES:

1 WHEN THE T11 CONNECTORS ARE USED ON THE LS FOR ADJACENT
FRAME FOR CAD 4 THESE FRAME'S ARE TO REMAIN AS IS

LINE, LINE LINK AND
MARKER CONNECTOR CONTROL CIRCUIT

AT&T-BELL LABORATORIES

SD-26030-01-618

2

65

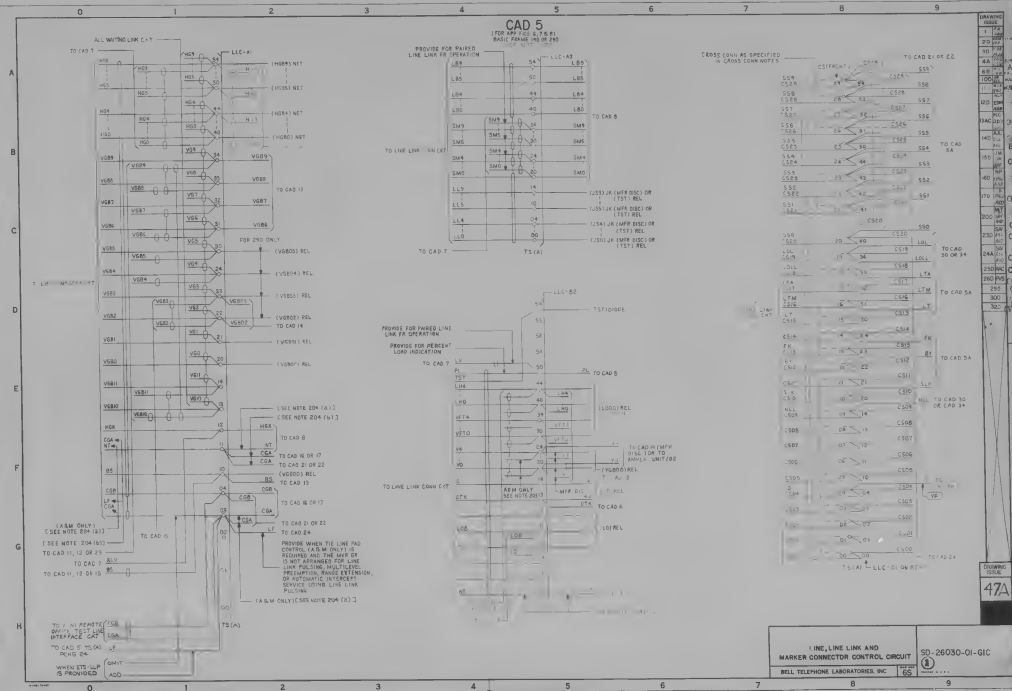
PRINTED IN U.S.A.

REVISION
DATE
230
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APP
NO

528

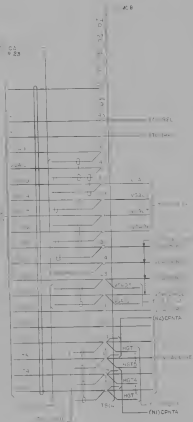
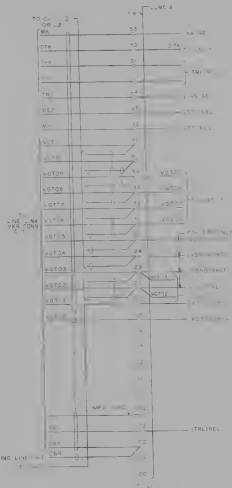
"SEE PROPRIETARY NOTICE ON SHEET ONE"

SD-26030-01-618



CAD 5A

CAD 6
FOR APP FIG. 6B
BASIC FRAME
180 OR 290

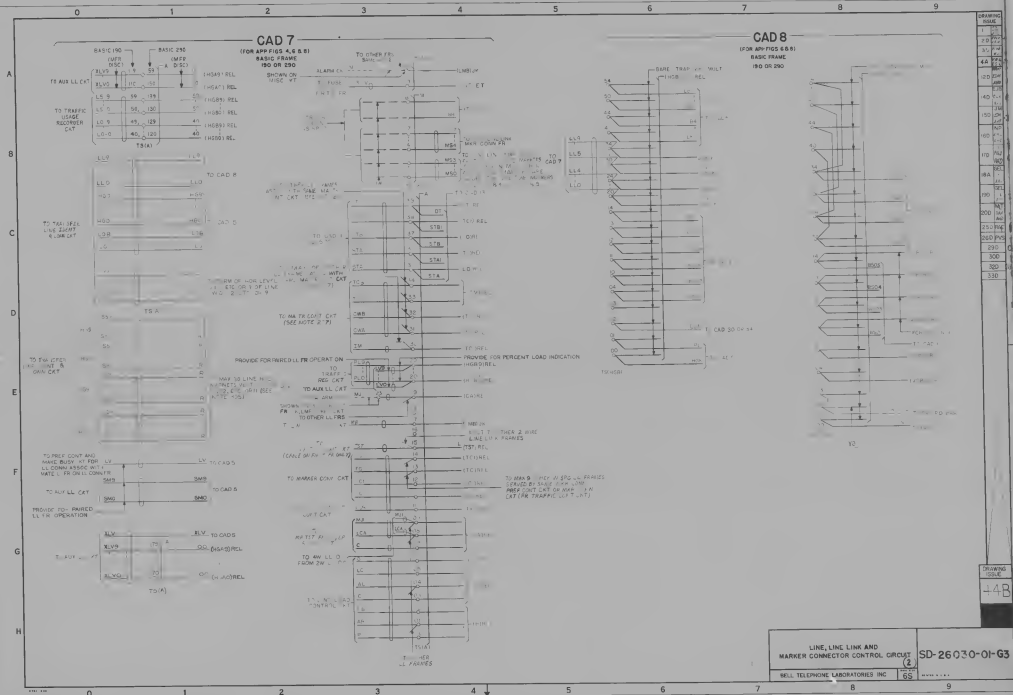


DRAWING
SD-26030-01-62
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

40B

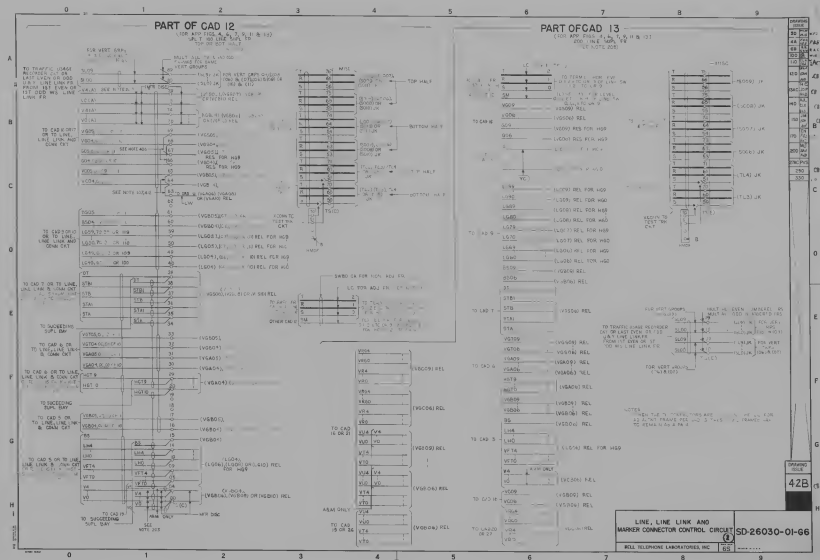
LINE, LINE LINK AND
MARKER CONNECTOR CONTROL CIRCUIT
BELL TELEPHONE LABORATORIES, INC.
SD-26030-01-62
65

SD-26030-01-62



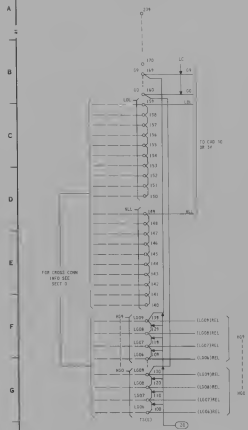
(FOR APP FIGURES 4,6,7,9,11 AND 13)
SPLIT 100 LINE SUPPL FRAME, TOP OR BOT HALF
(SEE NOTE 202)





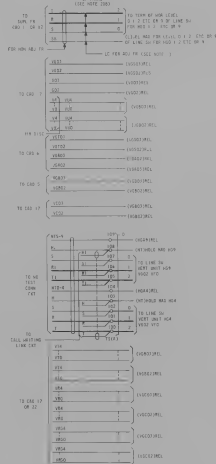
PART OF CAD 13

(FOR MAP F102, 8, A, 7, 11) & (13)
JUG LINE SUP. FR



CAD 14

(FOR MAP F102, 8, A, 7, 11)
SPLIT TO LINE SUP. OF THE LINE
(2 BARS) FROM BOTTOM HALF
OF FLOOR

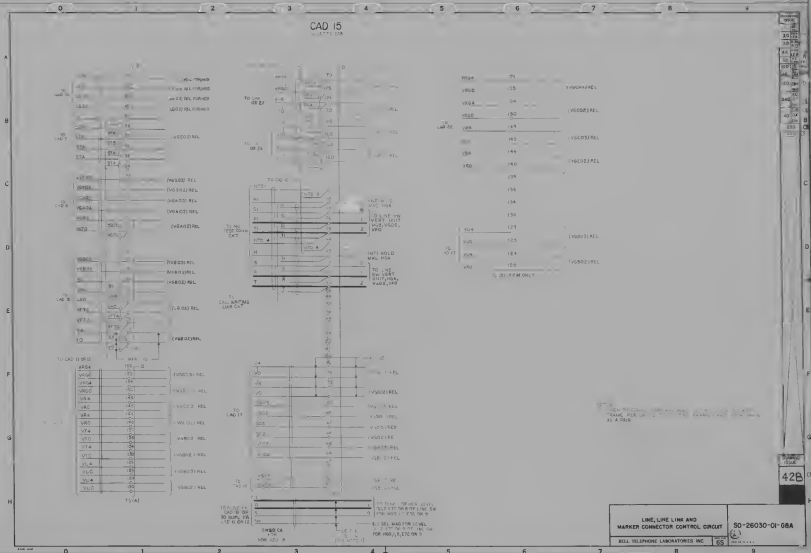


NOTES
1. UNDER THE F11 CONNECTIONS ARE USED ON THE L1 FOR ALLOCATED
THREE FROM CAD 14. THESE TWO FRAMES ARE TO REMAIN AS A
PAIR.

CAD 15

1-1771-108

W80-10-00005-05



PART OF CAD 16

(LINE 811 + 3 + 7 & 8)
280 LINE BASIC FRAME

CAD 17

CROSS CONN
AD SPEC TA
CIS CAD 5
SEE NOTE 4
ON 7 OF
TH AD
N TE 415

CROSS CONN
AD SPEC TO
523-25
CROSS SEE NOTE
1-2

CROSS
NUMBERED
AD AND G
TECH
SEE NOTE 2

CROSS
AND
AD
CROSS CONN
N

LINE LINE AND
MARKER CONNECTOR CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES

65

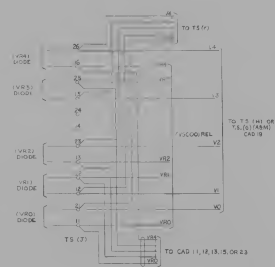
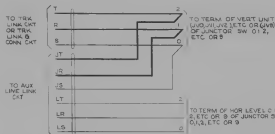
SD 26030-01-G10

41AR

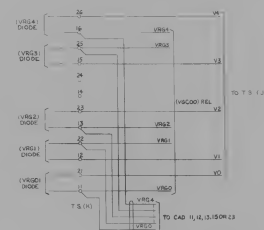
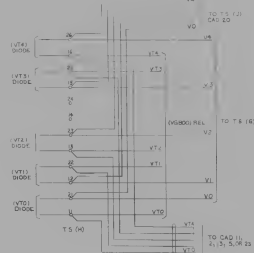
DEWING
50A
100
120
140
160
180
200
220

SD 26030-01-G10

doi:10.1017/S0007122612000061



WHEN 7 CONNECTORS ARE USED ON LC FOR ADJACENT FRAME
THESE TWO FRAMES ARE TO REMAIN AS A PAIR



DEPARTING
ISSUE
428

428

BELL TELEPHONE LABORATORIES
INCORPORATED

SD-26030-01-011

②

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(FOR 4PP FIG. 6)
290 LINE BASIC PR



EDCEN TO VA
PUNCHINGS
RS SPEC

XCONN TO CR
 OR CR RS
 SPEC

XCONN TO WRS
 PUNCHINGS RS
 SPEC

(FOR APP FIG. 6)
190 LINE BASIC PR
(SEE NOTE 209)



FROM TO VA INDINGS & SPEC

XCONN TO #RG
 PUNCHING
 AS SPEC

30000 TO CS 2
45. SPE

XDOWN TO
CA OR CB
R5 SPED

LINE, LINE LINE AND NUMBER
CONNECTOR CONTROL CIRCUIT

SD-26030-01-612

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INCORPORATED

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(FOR APP FIG. 4, 6, 7, 9, 11 & 13)
SPLIT 100 LINE SUPPL. FR TOP OR BOTTOM HALF
WHEN THIS FR IS EQUIPPED WITH VERT GAP OR 4 & 10 (SEE NOTES 202 & 203)



CAD 24

(APP FIG 8-17) (SEE NOTE 208)

BASIC FRAME 190 OR 290

DO NOT RUP WHEN APG 17 IS PROVIDED FOR OFFICE TEST FR ONLY

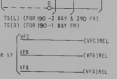
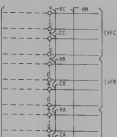
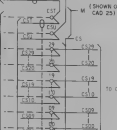
(HEAD-STREL)

(HEAD-STREL)

TO LL COWN EXT

TO RD 2

TO OFFICE TEST FR ONLY (CABLE ON FIRST FR ONLY)



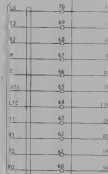
CAD 25

(APP FIG 8-18)

BASIC FRAME 190 OR 290

CROSS CONN AS SPECIFIED IN SECTION D

SEE CAD 24 FOR SUBD AND CROSS CONN



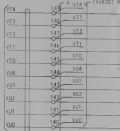
TS(1) (FOR 190-2 BAY & 290 FR)
TS(1) (FOR 190-1 BAY FR)

CAD 26

(APP FIG 8-19)

BASIC FRAME 190 OR 290

TO CAD 11, 12, 13, 15 OR 21



CAD 27

(APP FIG 8-20)

BASIC FRAME 190 OR 290

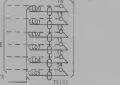
TO CAD 11, 12, 13, 15 OR 21



CAD 28 (MFR DISC)

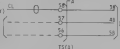
(FOR APP FIG 14)

PLCME-2



CAD 29 (MFR DISC)

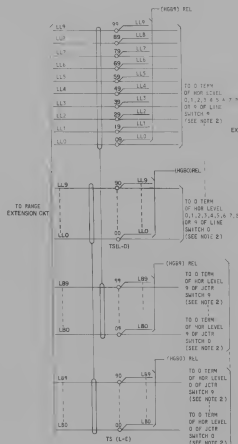
(FOR APP FIG 15)



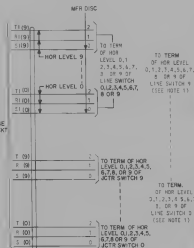
TO OFFICE TEST FR TEST CRY (CABLE ON FIRST FR ONLY)
CROSS CONN AS SPECIFIED TO TS(1) (FOR 190-2 BAY & 290 FR)
CROSS CONN AS SPECIFIED TO TS(1) (FOR 190-1 BAY FR)

CAD 30 (MFR DISC)
(FOR APP FIGURES 7, 8, & 20)
290 FRAME WITH RANGE EXTENSION

CAD 31

(FOR APP FIG 1 & 2)
2ND PR WITH RANGE EXTENSION

CAD 32

(FOR APP FIG 1 & 2)
2ND PR WITH RANGE EXTENSION
(SEE NOTES 200 B 200)

CAD 33

(FOR APP FIG 3)
LINE SLIP MULTIPLE
2ND PR WITH RANGE EXTENSION

SHEET NOTES

1. WHEN A HORIZONTAL GROUP IS EQUIPPED FOR RANGE EXTENSION THE T AND R LEADS OF THE LINK SLIP MULTIPLE AT THE LINE SWITCH SHALL BE DISCONNECTED, INSULATED, AND TIED BACK INTO THE FORM.
2. WHEN A HORIZONTAL GROUP IS EQUIPPED FOR RANGE EXTENSION THE L1-9 LEADS AT THE LINE SWITCH, AND THE L1-0 LEADS AT THE JUNCTION SWITCH SHALL BE DISCONNECTED, INSULATED AND TIED BACK INTO THE FORM.

Circuit Notes

RECORD OF FIGURES, WIRING AND APPARATUS CHANGES						
CHG'D OR ISSUE	IF JOB RECORD DOES NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT		
				STD	ASB	N D
20	1 Y OR Z	2		Y		Z
	1 W OR W	2		W		X
30	2 Z	2A		2B		2A
4B	FIG 2	FIG A		FIG B		FIG A
5B	20	2C		2D		2C

COMBINATION JACK
AND BONDING POST
AMERICAN RADIO
HARDWARE CO

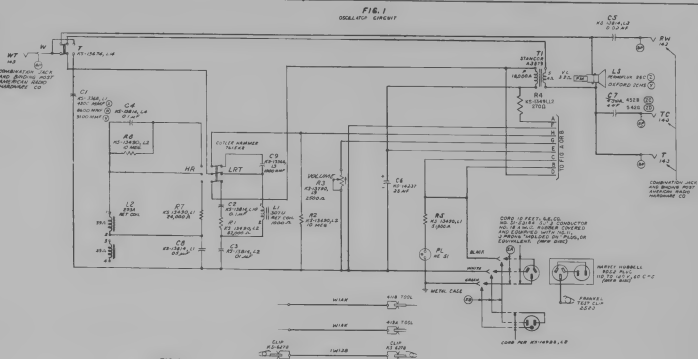


FIG. A
(MFR DISC)

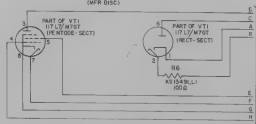
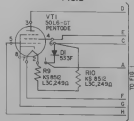


FIG. 8



NOTICE- NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL SYSTEM EXCEPT UNDER WRITTEN AGREEMENT.

J 947308-1)
ED-02625-94
EQUIPMENT INFO

ISSUE
58

COMMON SYSTEMS OSCILLATOR CIRCUIT IN FAULT LOCATOR TEST SET

(IJ94730-B DSCIL-1A FAULT LOCATOR TEST)

BELL TELEPHONE LABORATORIES

SD-95616-01